

Lajas Valley Area, Puerto Rico

06/11/2002

Chemical Properties of the Soils

(Absence of an entry indicates that data were not estimated.)

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon- ate	Gypsum	Salinity	Sodium adsorp- tion ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
AcD:								
Aguilita-----	0-11	40-50	---	7.9-8.4	35-40	0	0.0-2.0	0-5
	11-60	30-40	---	7.9-8.4	75-95	0	0.0-2.0	0-5
AcE:								
Aguilita-----	0-10	40-50	---	7.9-8.4	35-40	0	0.0-2.0	0-5
	10-60	30-40	---	7.9-8.4	75-95	0	0.0-2.0	0-5
Ag:								
Aguirre-----	0-10	50-60	---	7.9-8.4	1-5	0	0.0-4.0	0-10
	10-26	40-60	---	7.9-8.4	5-15	0	2.0-8.0	20-40
	26-45	40-60	---	7.9-8.4	1-5	0	2.0-8.0	20-40
AmB:								
Amelia-----	0-9	10-20	---	5.1-7.3	0-5	0	0.0-2.0	0-2
	9-29	10-30	---	5.6-6.5	0-10	0	0.0-2.0	0-10
	29-43	10-30	---	6.1-6.5	2-15	0	0.0-4.0	0-10
	43-78	10-15	---	6.1-7.8	2-15	0	0.0-4.0	0-15
Maguayo-----	0-5	10-30	---	5.6-6.5	0-5	0	0.0-2.0	0-2
	5-22	10-30	---	6.6-7.3	0-5	0	0.0-2.0	0-2
	22-48	10-30	---	7.9-8.4	10-30	0	0.0-2.0	0-2
	48-52	10-30	---	7.4-8.4	20-60	0	0.0-2.0	0-2

Chemical Properties of the Soils--Continued

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon- ate	Gypsum	Salinity	Sodium adsorp- tion ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
AmC2:								
Amelia-----	0-9	10-20	---	5.1-7.3	0-5	0	0.0-2.0	0-2
	9-29	10-30	---	5.6-6.5	0-10	0	0.0-2.0	0-10
	29-43	10-30	---	6.1-6.5	2-15	0	0.0-4.0	0-10
	43-78	10-15	---	6.1-7.8	2-15	0	0.0-4.0	0-15
Maguayo-----	0-5	10-30	---	5.6-6.5	0-5	0	0.0-2.0	0-2
	5-22	10-30	---	6.6-7.3	0-5	0	0.0-2.0	0-2
	22-48	10-30	---	7.9-8.4	10-30	0	0.0-2.0	0-2
	48-52	10-30	---	7.4-8.4	20-60	0	0.0-2.0	0-2
Ao:								
Amelia-----	0-9	10-20	---	5.1-7.3	0-5	0	0.0-2.0	0-2
	9-29	10-30	---	5.6-6.5	0-10	0	0.0-2.0	0-10
	29-43	10-30	---	6.1-6.5	2-15	0	0.0-4.0	0-10
	43-78	10-15	---	6.1-7.8	2-15	0	0.0-4.0	0-15
AsB:								
Bahia-----	0-6	1.0-5.0	---	5.1-6.0	0-1	0	0.0-2.0	0-2
	6-45	1.0-5.0	---	5.6-6.5	0-1	0	0.0-2.0	0-2
	45-66	5.0-10	---	6.1-7.3	0-1	0	0.0-2.0	0-2
Ca:								
Cartagena-----	0-12	40-60	---	6.1-7.8	0-2	0	4.0-8.0	0-2
	12-24	40-60	---	6.1-7.3	1-15	0	4.0-8.0	0-2
	24-70	20-55	---	6.1-8.4	5-25	0	8.0-16.0	10-20
Cc:								
Cartagena Variant----	0-20	45-55	---	6.1-6.5	0	0	2.0-4.0	0
	20-60	25-50	---	6.1-7.3	0	0	4.0-8.0	0

Chemical Properties of the Soils--Continued

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon- ate	Gypsum	Salinity	Sodium adsorp- tion ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
Co:								
Coastal Beach-----	0-6	---	---	5.1-7.8	0	0	4.0-32.0	0
	6-80	---	---	5.1-7.8	0	0	4.0-32.0	0
DeC:								
Descalabrado-----	0-6	30-50	---	6.6-7.3	0-2	0	0	0
	6-12	20-50	---	6.6-7.3	0-2	0	0	0
	12-16	---	---	---	---	---	---	---
DeD:								
Descalabrado-----	0-5	30-50	---	6.6-7.3	0-2	0	0	0
	5-12	20-50	---	6.6-7.3	0-2	0	0	0
	12-16	---	---	---	---	---	---	---
DeF:								
Descalabrado-----	0-4	30-50	---	6.6-7.3	0-2	0	0	0
	4-10	20-50	---	6.6-7.3	0-2	0	0	0
	10-14	---	---	---	---	---	---	---
Fe:								
Fe-----	0-7	30-60	---	7.9-9.0	5-20	0	4.0-8.0	5-25
	7-17	30-60	---	8.5-9.0	5-20	0	8.0-16.0	20-40
	17-60	30-60	---	8.5-9.0	5-30	2-4	8.0-16.0	20-40
FrA:								
Fraternidad-----	0-11	35-55	---	6.1-7.8	0-2	0	0.0-2.0	0-2
	11-24	35-55	---	7.4-8.4	0-2	0	0.0-2.0	0-2
	24-50	35-50	---	7.4-8.4	0-1	0	0.0-2.0	0-2

Chemical Properties of the Soils--Continued

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon- ate	Gypsum	Salinity	Sodium adsorp- tion ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
FrB:								
Fraternidad-----	0-10	35-55	---	6.1-7.8	0-2	0	0.0-2.0	0-2
	10-20	35-55	---	7.4-8.4	0-2	0	0.0-2.0	0-2
	20-60	35-50	---	7.4-8.4	0-1	0	0.0-2.0	0-2
Ft:								
Fraternidad-----	0-17	40-55	---	6.6-7.8	0-2	0	0.0-2.0	0-2
	17-32	40-60	---	7.4-7.8	0-7	0	2.0-4.0	0-2
	32-60	35-55	---	7.9-8.4	0-1	5-10	8.0-16.0	0-2
FvA:								
Fraternidad-----	0-10	35-55	---	6.1-7.8	0-2	0	0.0-2.0	0-2
	10-25	35-55	---	7.4-8.4	0-2	0	0.0-2.0	0-2
	25-40	40-65	---	7.4-8.4	0-10	0	0.0-2.0	0-2
	40-60	35-50	---	7.4-8.4	0-1	0	0.0-2.0	0-2
FvB:								
Fraternidad-----	0-9	35-55	---	6.1-7.8	0-2	0	0.0-2.0	0-2
	9-22	35-55	---	7.4-8.4	0-2	0	0.0-2.0	0-2
	22-38	40-65	---	7.4-8.4	0-10	0	0.0-2.0	0-2
	38-60	35-50	---	7.4-8.4	0-1	0	0.0-2.0	0-2
Gc:								
Guanica-----	0-6	30-40	---	7.9-8.4	0-10	0	4.0-8.0	5-10
	6-21	30-50	---	7.9-8.4	0-10	0	4.0-8.0	15-20
	21-32	40-50	---	7.9-8.4	0-10	0	4.0-8.0	15-20
	32-70	40-50	---	7.9-8.4	0-10	2-4	8.0-16.0	20-30

Chemical Properties of the Soils--Continued

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon- ate	Gypsum	Salinity	Sodium adsorp- tion ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
Gf:								
Guayabo-----	0-7	1.0-5.0	---	6.1-6.5	0-1	0	0.0-2.0	0-2
	7-55	1.0-5.0	---	6.1-6.5	0-1	0	0.0-2.0	0-2
	55-75	2.0-10	---	6.6-7.3	0-1	0	0.0-2.0	0-2
GuD:								
Guayama-----	0-8	30-50	---	6.1-7.8	0-2	0	0	0
	8-16	35-55	---	6.1-7.8	0-2	0	0	0
	16-20	---	---	---	---	---	---	---
GuF:								
Guayama-----	0-5	30-50	---	6.1-7.8	0-2	0	0	0
	5-18	35-55	---	6.1-7.8	0-2	0	0	0
	18-22	---	---	---	---	---	---	---
JaB:								
Jacana-----	0-5	30-50	---	5.6-7.8	0-1	0	0.0-2.0	0
	5-17	30-50	---	5.6-7.8	0-1	0	0.0-2.0	0
	17-22	30-50	---	5.6-7.8	0-1	0	0.0-2.0	0
	22-26	---	---	---	---	---	---	---
JaC:								
Jacana-----	0-6	30-50	---	5.6-7.8	0-1	0	0.0-2.0	0
	6-21	30-50	---	5.6-7.8	0-1	0	0.0-2.0	0
	21-28	30-50	---	5.6-7.8	0-1	0	0.0-2.0	0
	28-32	---	---	---	---	---	---	---
JaC2:								
Jacana-----	0-4	30-50	---	5.6-7.8	0-1	0	0.0-2.0	0
	4-15	30-50	---	5.6-7.8	0-1	0	0.0-2.0	0
	15-23	30-50	---	5.6-7.8	0-1	0	0.0-2.0	0
	23-27	---	---	---	---	---	---	---

Chemical Properties of the Soils--Continued

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon- ate	Gypsum	Salinity	Sodium adsorp- tion ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
JaD2:								
Jacana-----	0-2	30-45	---	5.6-7.3	0	0	0	0
	2-14	30-45	---	5.6-7.3	0	0	0	0
	14-18	---	---	---	---	---	---	---
JcB:								
Jacana-----	0-6	30-50	---	5.6-7.8	0-1	0	0.0-2.0	0
	6-21	30-50	---	5.6-7.8	0-1	0	0.0-2.0	0
	21-28	30-50	---	5.6-7.8	0-1	0	0.0-2.0	0
	28-32	---	---	---	---	---	---	---
JcC:								
Jacana-----	0-5	30-50	---	5.6-7.8	0-1	0	0.0-2.0	0
	5-18	30-50	---	5.6-7.8	0-1	0	0.0-2.0	0
	18-26	30-50	---	5.6-7.8	0-1	0	0.0-2.0	0
	26-30	---	---	---	---	---	---	---
Lr:								
Limestone Rock Land--	0-60	---	---	---	---	---	---	---
MaD2:								
Mariana-----	0-6	---	20-40	3.5-5.0	0-2	0	0	0
	6-18	---	20-40	3.5-5.5	0-2	0	0	0
	18-25	---	20-40	3.5-5.5	0-2	0	0	0
	25-29	---	---	3.5-5.5	---	---	---	---
MaE2:								
Mariana-----	0-6	---	20-40	3.5-5.0	0-2	0	0	0
	6-18	---	20-40	3.5-5.5	0-2	0	0	0
	18-25	---	20-40	3.5-5.5	0-2	0	0	0
	25-29	---	---	3.5-5.5	---	---	---	---

Chemical Properties of the Soils--Continued

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon- ate	Gypsum	Salinity	Sodium adsorp- tion ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
PaA:								
Palmarejo-----	0-12	---	10-30	3.5-5.0	0-1	0	0.0-2.0	0-2
	12-22	---	15-25	3.5-5.0	0-2	0	0.0-2.0	0-2
	22-32	---	20-45	3.5-5.0	0-2	0	0.0-2.0	0-2
	32-60	---	15-35	3.5-5.0	0-2	0	0.0-2.0	0-2
PaB:								
Palmarejo-----	0-9	---	10-30	3.5-5.0	0-1	0	0.0-2.0	0-2
	9-30	---	15-25	3.5-5.0	0-2	0	0.0-2.0	0-2
	30-41	---	20-45	3.5-5.0	0-2	0	0.0-2.0	0-2
	41-60	---	15-35	3.5-5.0	0-2	0	0.0-2.0	0-2
PaC2:								
Palmarejo-----	0-8	---	10-30	3.5-5.0	0-1	0	0.0-2.0	0-2
	8-22	---	15-25	3.5-5.0	0-2	0	0.0-2.0	0-2
	22-32	---	20-45	3.5-5.0	0-2	0	0.0-2.0	0-2
	32-60	---	15-35	3.5-5.0	0-2	0	0.0-2.0	0-2
PcB:								
Poncena-----	0-11	40-55	---	6.6-8.4	0-2	0	0.0-2.0	0-2
	11-30	40-55	---	6.6-8.4	0-2	0	0.0-2.0	0-2
	30-38	40-55	---	7.9-8.4	0-2	0	0.0-2.0	0-2
	38-60	20-55	---	7.9-8.4	5-10	0	0.0-2.0	0-2
PcC2:								
Poncena-----	0-8	40-55	---	6.6-8.4	0-2	0	0.0-2.0	0-2
	8-22	40-55	---	6.6-8.4	0-2	0	0.0-2.0	0-2
	22-31	40-55	---	7.9-8.4	0-2	0	0.0-2.0	0-2
	31-60	20-55	---	7.9-8.4	5-10	0	0.0-2.0	0-2

Chemical Properties of the Soils--Continued

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon- ate	Gypsum	Salinity	Sodium adsorp- tion ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
PoA:								
Pozo Blanco-----	0-9	20-35	---	7.4-7.8	0-5	0	0	0
	9-17	15-30	---	7.4-8.4	0-10	0	0	0
	17-60	15-30	---	7.9-8.4	20-50	0	0	0
PzB:								
Pozo Blanco-----	0-12	20-35	---	7.4-7.8	0-10	0	0	0
	12-18	15-30	---	7.4-8.4	0-10	0	0	0
	18-60	15-30	---	7.9-8.4	20-50	0	0	0
PzC:								
Pozo Blanco-----	0-9	20-35	---	7.4-7.8	0-10	0	0	0
	9-16	15-30	---	7.4-8.4	0-10	0	0	0
	16-60	15-30	---	7.9-8.4	20-50	0	0	0
PzD:								
Pozo Blanco-----	0-4	20-35	---	7.4-7.8	0-10	0	0	0
	4-12	15-30	---	7.4-8.4	0-10	0	0	0
	12-60	15-30	---	7.9-8.4	20-50	0	0	0
Sa:								
San Anton-----	0-20	20-50	---	6.6-8.4	0-1	0	0.0-2.0	0-2
	20-40	25-50	---	6.6-8.4	0-1	0	0.0-2.0	0-2
	40-52	20-40	---	6.6-8.4	0-1	0	0.0-2.0	0-2
Sc:								
San Anton-----	0-18	20-50	---	6.6-8.4	0-1	0	0.0-2.0	0-2
	18-36	25-50	---	6.6-8.4	0-1	0	0.0-2.0	0-2
	36-60	10-35	---	6.6-8.4	0-5	0	0.0-2.0	0-2

Chemical Properties of the Soils--Continued

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon- ate	Gypsum	Salinity	Sodium adsorp- tion ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
Se:								
San Anton Variant----	0-12	20-50	---	6.6-7.8	0-1	0	0.0-2.0	0-2
	12-25	20-35	---	6.6-7.8	0-1	0	0.0-2.0	0-2
	25-60	5.0-10	---	6.6-7.8	0-4	0	0.0-2.0	0-2
SgD:								
San German-----	0-2	15-30	---	7.4-8.4	20-40	0	0.0-2.0	0-2
	2-8	10-20	---	7.4-8.4	40-80	0	0.0-2.0	0-2
	8-12	---	---	---	---	---	---	---
SgF:								
San German-----	0-2	15-30	---	7.4-8.4	20-40	0	0.0-2.0	0-2
	2-10	10-20	---	7.4-8.4	40-80	0	0.0-2.0	0-2
	10-14	---	---	---	---	---	---	---
SmE:								
San German-----	0-8	40-50	---	7.9-8.4	35-40	0	0.0-2.0	0-5
	8-60	30-40	---	7.9-8.4	75-95	0	0.0-2.0	0-5
Sn:								
Santa Isabel-----	0-10	30-60	---	6.6-7.3	0-5	0	0.0-2.0	0-2
	10-69	30-65	---	6.6-7.8	0-5	0	0.0-2.0	0-2
SoA:								
Sosa-----	0-5	5.0-20	---	5.6-6.5	0-2	0	0.0-2.0	0-2
	5-12	5.0-20	---	5.6-6.5	0-2	0	0.0-2.0	0-2
	12-20	5.0-20	---	6.6-7.3	0-2	0	0.0-2.0	0-2
	20-33	2.0-15	---	6.6-7.3	0-2	0	0.0-2.0	0-2
	33-63	2.0-15	---	6.6-7.3	0-2	0	0.0-2.0	0-2

Chemical Properties of the Soils--Continued

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon- ate	Gypsum	Salinity	Sodium adsorp- tion ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
SsB:								
Sosa-----	0-5	5.0-20	---	5.6-6.5	0-2	0	0.0-2.0	0-2
	5-12	5.0-20	---	5.6-6.5	0-2	0	0.0-2.0	0-2
	12-20	5.0-20	---	6.6-7.3	0-2	0	0.0-2.0	0-2
	20-33	2.0-15	---	6.6-7.3	0-2	0	0.0-2.0	0-2
	33-63	2.0-15	---	6.6-7.3	0-2	0	0.0-2.0	0-2
SsD2:								
Sosa-----	0-4	5.0-20	---	5.6-6.5	0-2	0	0.0-2.0	0-2
	4-8	5.0-20	---	5.6-6.5	0-2	0	0.0-2.0	0-2
	8-15	5.0-20	---	6.6-7.3	0-2	0	0.0-2.0	0-2
	15-24	2.0-15	---	6.6-7.3	0-2	0	0.0-2.0	0-2
	24-63	2.0-15	---	6.6-7.3	0-2	0	0.0-2.0	0-2
Tc:								
Teresa-----	0-7	20-40	---	7.4-9.0	0-2	0	8.0-22.0	15-20
	7-60	25-40	---	7.4-9.0	1-5	0	8.0-22.0	15-20
Tf:								
Tidal Flats-----	0-60	---	---	---	---	---	16.0-32.0	---
Ts:								
Tidal Swamp-----	0-60	---	---	6.1-7.8	---	---	16.0-32.0	---
Va:								
Vayas-----	0-7	20-40	---	6.6-7.8	0-2	0	0.0-2.0	2-4
	7-47	25-50	---	6.6-8.4	1-5	0	0.0-2.0	4-10
	47-71	25-40	---	6.6-8.4	1-5	0	2.0-4.0	2-4